

ULTRASONIC FLOWMETER

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- **international:** **G01F1/66; G01F1/712; G01F1/66; G01F1/704; (IPC1-7): G01F1/66; G01F1/712**

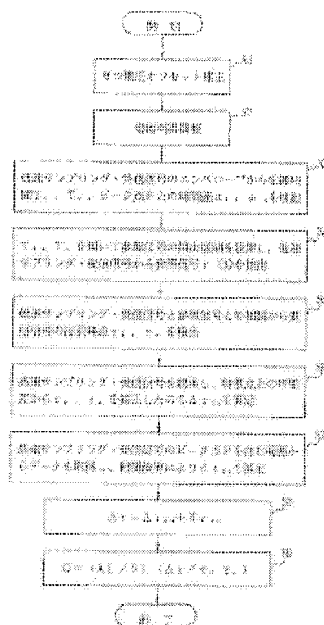
- **European:**

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Abstract of JP 2003279396 (A)

PROBLEM TO BE SOLVED: To provide an ultrasonic flowmeter which realizes high speed processing while ensuring measurement precision. ;
SOLUTION: In the ultrasonic flowmeter, an ultrasonic signal is made to propagate to an upstream side and a downstream side of fluid inside of a measuring object, and a flow speed and a flow rate of the fluid are measured from a propagation time in the upstream direction, a propagation time in the downstream direction and propagation time difference of them. The flowmeter is provided with a propagation time detecting process for detecting the propagation time in the upstream direction and the propagation time in the downstream direction with low precision, and a process for detecting the propagation time difference of them with high precision by using a calculating method different from the propagation time detecting process. ;
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